

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexandria, Virginia 22313-1450 www.unpto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/579,768	05/18/2006	Satoshi Mihara	21713-00058-US1	3575	
30678 7590 11/18/2009 CONNOLLY BOVE LODGE & HUTZ LLP 1875 EYE STREET, N.W.			EXAM	EXAMINER	
			BUIE-HATCHER, NICOLE M		
SUITE 1100 WASHINGTON, DC 20006		ART UNIT	PAPER NUMBER		
		1796			
			MAIL DATE	DELIVERY MODE	
			11/18/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/579,768 MIHARA ET AL. Office Action Summary Examiner Art Unit NICOLE M. BUIE-HATCHER 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 29 October 2009. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 6-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 6-8 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 20091029.

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

6) Other:

5) Notice of Informal Patent Application

DETAILED ACTION

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Response to Amendment

The amendment filed 10/29/2009 has been entered. Claims 6-8 remain pending.

The indicated allowability of claims 6-8 is withdrawn in view of the newly discovered reference(s) to EP 1270657 A1 which was cited on the information disclosure statement filed 10/29/2009. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over EP 1270657 A1 (See machine translation for citation).

Application/Control Number: 10/579,768

Art Unit: 1796

Regarding claim 6, EP '657 discloses a rubber composition [0005] comprising 30-90 phr of a coupled solution-polymerized styrene-butadiane copolymer, 10-70 phr of other diene rubber, 20-100 phr of silica which is within the claimed range, and 1 to 15 phr of silane coupling agent. The other diene may be a natural rubber [0013]. Preferably, the silane coupling agent is 3-(S-octanoylthio)-propyltiethoxysilane [0021]. The silane coupling agent is reacted with the silica during mixing the rubber or already before the addition of the silica to the rubber in the sense of pretreatment [0019].

However, EP '657 does disclose the bulk density retention rate of the surface treated silica. The Office realizes that all of the claimed effects or physical properties are not positively stated by the reference(s). However, the reference(s) teaches all of the claimed ingredients and a similar way of making the surface treated silica as in the instant specification (See [0021] of the corresponding PG Pub). Therefore, the claimed effects and physical properties, i.e. bulk density retention rate would implicitly be achieved by a composition with all the claimed ingredients. If it is the applicant's position that this would not be the case: (1) evidence would need to be provided to support the applicant's position; and (2) it would be the Office's position that the application contains inadequate disclosure that there is no teaching as to how to obtain the claimed properties with only the claimed ingredients.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over EP 1270657 A1 (See machine translation for citation).

Regarding claim 7, EP '657 discloses a rubber composition [0005] comprising 30-90 phr of a coupled solution-polymerized styrene-butadiane copolymer (Since the polybutadiene Application/Control Number: 10/579,768

Art Unit: 1796

rubber is not described in the instant claim, the polybutadiene rubber may also be a copolymer), 10-70 phr of other diene rubber, 20-100 phr of silica which is within the claimed range, and 1 to 15 phr of silane coupling agent. The other diene may be a natural rubber [0013]. Preferably, the silane coupling agent is 3-(S-octanoylthio)-propylticthoxysilane [0021]. The silane coupling agent is reacted with the silica during mixing the rubber or already before the addition of the silica to the rubber in the sense of pretreatment [0019].

However, EP '657 does disclose the bulk density retention rate of the surface treated silica. The Office realizes that all of the claimed effects or physical properties are not positively stated by the reference(s). However, the reference(s) teaches all of the claimed ingredients and a similar way of making the surface treated silica as in the instant specification (See [0021] of the corresponding PG Pub). Therefore, the claimed effects and physical properties, i.e. bulk density retention rate would implicitly be achieved by a composition with all the claimed ingredients. If it is the applicant's position that this would not be the case: (1) evidence would need to be provided to support the applicant's position; and (2) it would be the Office's position that the application contains inadequate disclosure that there is no teaching as to how to obtain the claimed properties with only the claimed ingredients.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over EP 1270657 A1 as applied to claim 7 above, and further in view of Kan et al. (US 4,444,236) as evidenced by Kan et al. (US 4,417,027).

Regarding claim 8, EP '657 discloses a rubber composition as shown above in claim 7.

Application/Control Number: 10/579,768

Art Unit: 1796

However, EP '657 does not disclose the glass-transition temperature of the styrene-butadiene copolymer. Kan et al. teaches a solution polymerized star shaped SBR containing less than 20% of styrene and vinyl less than 50% with a glass transition temperature less than 50°C (claim 4). EP '1270657 and Kan et al. (US '236) are analogous art concerned with the same field of endeavor, namely tire tread compositions comprising a solution polymerized styrene-butadiene polymer with the rubber having comparable amounts of styrene and butadiene units. It would have been obvious to one of ordinary skill in the art at the time of invention to substitute the styrene-butadiene copolymer of EP '657 with one as taught by Kan et al. (US '236), and the motivation to do so would have been as Kan et al. (US '027) suggests preventing mechanical cracks (C3/L30-C4/L13).

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NICOLE M. BUIE-HATCHER whose telephone number is (571)270-3879. The examiner can normally be reached on Monday-Thursday with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on (571)272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/579,768 Page 6

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo/ Supervisory Patent Examiner, Art Unit 1796 /N. M. B./ Examiner, Art Unit 1796 11/4/2009